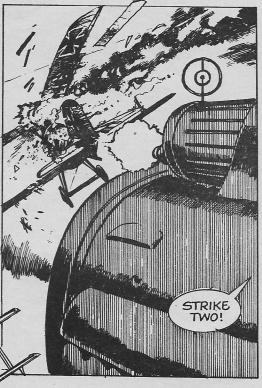




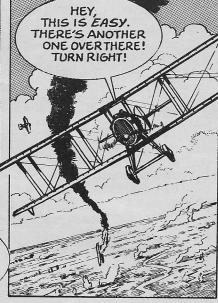
LOAD RUNNER

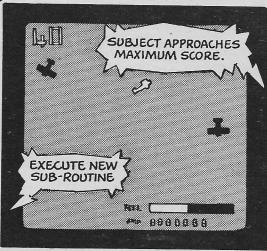




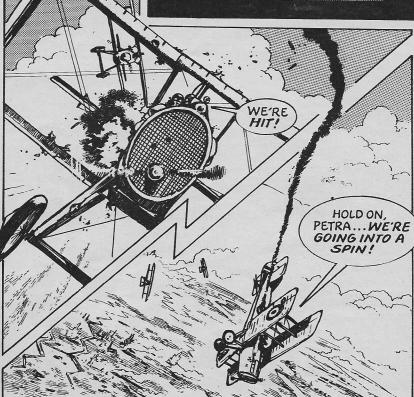


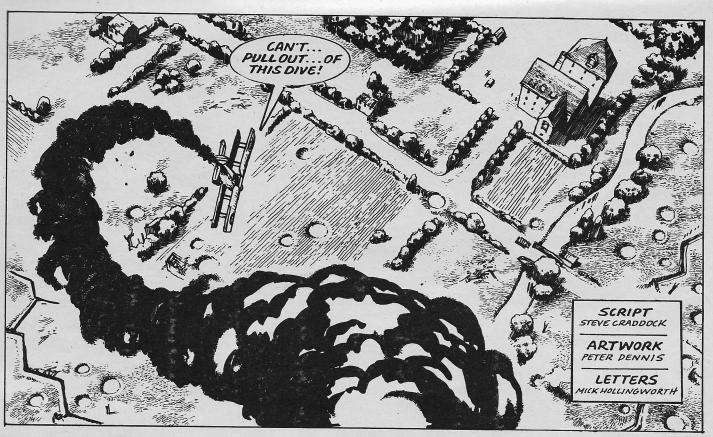


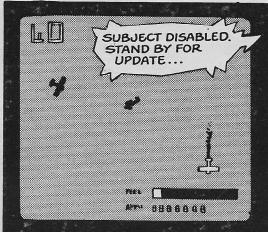








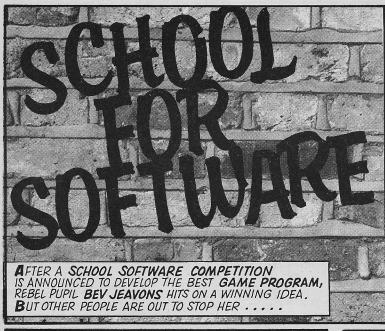






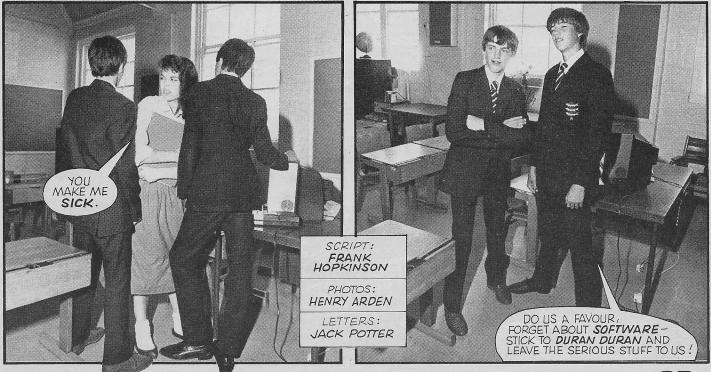














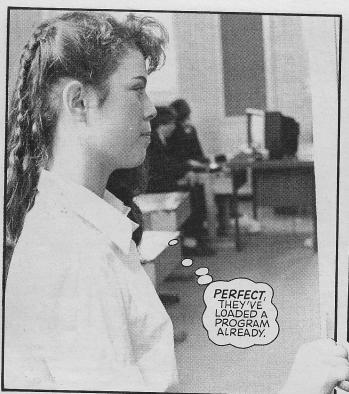




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This package promotes FAST and ACCURATE calculation ability at increasingly difficult levels. It is very EFFECTIVE as can be seen by consulting the enclosed grading tables for assessments of pupil's performance (given his age).

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THE FOUR RULES PACKAGE £11.70 LANGUAGE DEVELOPMENT CASSETTE £7.90 (State pupil's age.) 1 of each £14.50

Cheques to MICRO MASTER, Dept. LR, 94 Airedale Ave, Chiswick, London W4 2NN. For further details phone Dr. K. W. Glasson 01-747 1373.

EXPERIENCED SINCLAIR/COMMODORE PROGRAMMERS REQUIRED IN WEST LONDON



PINBALL WIZARD has bumpers, rollovers, a jackpot, slingshots and 3 flippers that you can even use to trap and hold the ball! You can even nudge the table but not too often or it tilts! PINBALL WIZARD IS PURE ENIOYMENT.

UNEXPANDED VIC 20-PINBALL WIZARD REALISTA

Rec. Price £7.95

'An excellent game" said Computer and Video Games (Sep'83). •

A novel, exciting and compulsively tactical arcade-style game.

The FIRST & games cassette to have The FIRST 31 games cassette to have Commodore 31 SIMULTANEOUS TWO-PLAYER NEW SUPERDOGFIGHT ACTION-realisitic sound effects too.

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> Sinclair Spectrum 48k

SPACE ISLAND

VAMPIRE VILLAGE CITY

SELECTED TITLES NOW AVAILABLE IN:

Dixons Software Express GREENCHIP at Debenhams TERMINAL LASKYS





Load Runner T-shirts for lucky Decoders

ONCE AGAIN three exclusive *Load Runner* T-shirts are waiting to be claimed by the Decoders whose membership numbers are listed in the coded printout below. To discover whether you are one of the lucky ones, decode the message using your Cipher Book. The message also contains an easy question. If your number is included, claim your prize by writing your name, address and membership number on a postcard, together with the answer to the question, and post it to me at my installation base, to arrive not later than October 14th. Don't forget to state whether you require a small, medium or large size T-shirt. The prize-winners will have their photographs displayed on this page in future printouts.



0	REB FSLDX JHB JHB	CBCIBPO KPB:
0	JHB ZBPJ	QAW YAUB. BATER YJSP. YAUB ZRDI
0	VEJ LJGBO YPJO	REB MFKHBR ZAFFXDJH?
		(Keyword No. 4)



Join the Club

THE LOAD RUNNER DECODERS is a rapidly growing fan club for readers of the first computer comic in the galaxy. A new member will receive a personalised security pass with his or her photograph mounted upon it, together with a membership number. This Security Pass will give the bearer a reduced admission charge to exhibitions and computer fairs announced from time to time in the Decoders page of Load Runner.

Each member will also receive the Decoders Cipher Book which provides the key to the coded messages that appear in each printout. Exciting prizes are awarded to successful Decoders whose membership numbers appear in those messages.

The cost of membership is £3. If, however, you cut out the word Decoders from the top of this page and from one other printout of Load Runner, you can join the club at the special reduced rate of £1. Simply fill in the application form below and send it together with your membership fee and TWO passportsize photographs to: The Controller, Load Runner Decoders, ECC Publications, 196-200 Balls Pond Road, London N1 4AO. Please make cheques or postal orders payable to ECC Publications Ltd.

List below the story/programs and fact routines that you like best in Load Runner.
1
2
3
What do you dislike most in Load Runner?
Do you have a computer? YES/NO
NameAge
Address

* ARE YOU a Decoder with a difference? Do you have an interesting hobby or an unusual use for your computer? Has something out-of-theordinary ever happened to you?

Write and tell me about it, including a photograph if possible. £5 will be paid for each Star Letter published.

War Games Book Winners

Graham Skipworth, Sheffield; John Conway, Preston, Lancs; Jill Roberts, Newbury, Berks; H. C. Armstrong, East Croydon; Sheikh Rahman, London SE19; Lynton Malpas, Tewkesbury, Glos; Carlo Iacono, Watford, Herts; Robert Crompton, Devizes, Wilts; Rowland Turner, Chertsey, Surrey; Robert Barnes, East Hanninfield, Essex; Andrew McGowan, Bearsden, Glasgow; Jonathan Yearsley, Rhyl, Clwyd; Trevnal Lacy, Farnborough, Hants; Brian H. Longstaff, Sheffield; T. Halton, Nantwich, Cheshire; Andrew McGovern, Townhead, Coatbridge; T. A. Willis, Bolney, W. Sussex; Mark Newman, Hall Green, Birmingham; John Breedon, Mapperley, Nottingham; Chi-Wah-Yau, London NW1; I. Murphy, Accrington, Lancs; Mark Vivash, Portsmouth; Mark Harris, Croydon, Surrey; Duncan Gordon, Brierfield, Lancs; Nicholas Winchester, Loughborough, Leics; Louis Wood, London E18; John Cotton, Great Yarmouth; A. P. Westney, Shoebury, Essex; William Biney-Tay, London W8; Daryl Bloomfield, Basingstoke, Hants; David Worsdale, Waltham Cross, Herts; Gornall Leach, Tyne & Wear; John Medany, North Harrow, Middx; Beowulf Grimbly, London N4; Bobby Earl, Prenton, Birkenhead; Paul Monger, Iver Heath. Bucks; James Solomon, Beverley, North Humberside; Fablo Passaro, Croesyceiliog, Cwmbran; John Crawford, Alexandria, Dunbartonshire; Gorbaksh Singh, Ilford, Essex; David Campbell, London SE14; Christopher Shaw, Southowrom, Halifax; John France, Easterhouse, Glasgow; Richard Adamson, Taunton, Somerset; John Burnham, Penrith, Cumbria.

The data snake in this printout will provide you with an alternative to a digital computer. The snake begins with the letter A. All you have to do is find the correct letter A and follow the directions which are given below. North is straight up the page.

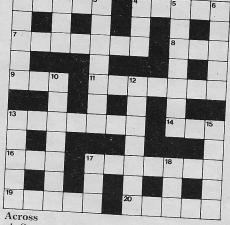
				1 0.			
W I T S L T	E W A A D C	B	N. L	Δ	G V R G	I T U	T A F

Secret path: SE, SW, E, E, SE, SE, NE

A computer is given the following task. You think of a number between one and 100. In not more than seven guesses the computer can find the number. You must help the computer by telling it whether the last guess was lower or higher than the number you thought of. Can you describe how the computer goes about the task? Wordplotter-

ANSWERS to the puzzles in last printout: The Data Snake secret word is DIGITAL. The Centipede is 640 pods long when it fills the screen.

Wordplotter 8



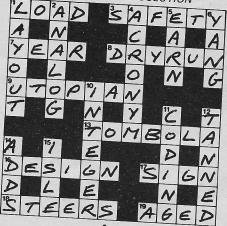
- 1. Computer worker (5)
- 4. First stage in computer use (5)
- Tennis with linked computers? (7)
- Positive answer (3)
- 9. Electronic data processing at first (3)
- 11. Input system for shops how to behave in a
- George's algebra (7)
- 14. Instruction in assignment (3)
- 16. Take little Susan to court (3)
- 17. Programmer's customers (7)
- 19. Legal files used in the Comal language (5)

20. They surround boards and may connect connec-Down tors (5)

Set of hills the input number should be in (5)

- Smallest number (3)
- What you're in if you stay up late computing (7) Used on PAPER (3)
- 5. To the employees, a firm's most important soft-
- A sense, of art, perhaps (5)
- 10. It follows 4 across (7)
- 12. When the program finally succeeds or fails (3-4)
- 13. Fundamental programming language (5)
- 15. Jobs set by 17 across (5)
- 17. Tiny characters per second (3)
 18. What parents do if you're computing? (3)

WORDPLOTTER 7 SOLUTION



Easy to read

I THINK your computer comic is good as it is almost easier to read than home computing magazines. The picture stories I like best are Time Plan 9, The Invasion of the Arcadians and I think Load Runner is good. Your Buzzword section and your A-Z of computers is useful, too.

What does ECC mean?

Patrick Lea, Cheshunt, Herts.

What do you mean, almost? ECC stands for European Communication Consultants. Anything else you would like to know?

Dislikes

THERE ARE some things I do not like about Load Runner. One thing is that the Decoder's Club is expensive. Could your price for membership be about £1, please?

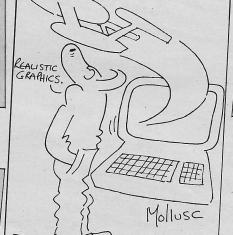
The second thing is that there is not sufficient information on new micros, games and educational programs, and books for micros. Perhaps there could be a section on what a micro is and a detailed section on a micro

S A Rahman

Perhaps you should be reading a computer. magazine instead of a computer comic. In any case, there must be some bugs in your data files, reader Rahman. My operators have output data on every new micro launched since Load Runner was up and running — the Sord M5, the Aquarius and the

Each printout contains games reviews and micro specifications in my Softspot and A-Z of Computers fact routines. Reviews of books and educational software will be featured in future printouts.

From time to time I will allow readers to join the Decoders at a reduced rate. The first of the special offers can be found on the opposite page.



Brilliant

I HAVE NOT bought a comic for at least three years but when I saw that there was a computer comic, I jumped to it. Now I am sure I shall buy Load Runner for the next few years. Load Runner is a brilliant story; I love the idea of having a person inside a computer. Ram and Rom are really amusing. Computafax is interesting; so is Brainy's Brainbox and everything else is ace, including the cross-

I am glad you have programs in the comic and I think they should be for different computers each printout but I think that you should have no more than a few programs each week as Load Runner is a comic, not a

Robert Courtney, Isleworth, Middx.

More programs

YOUR COMIC is one of the best I have ever read but you do not include many programs, hints or a guide to help first-time buyers. I own a Vic-20 and I am sure many other readers feel the same way.

I like your puzzle section but please give us some more programs.

Barry Jones, Warminster, Wilts My programmers always aim to please, grams in this printout. Don't forget, I will

pay £10 for each program printed, so if you have games or routines you think our readers might like, please send them. Include a stamped addressed envelope if you want your cassettes returned.

*Vectrex *Competition

* 1st Niall Gilsenan, hely, Co Wicklow

★2nd Paul Smeaton, 12, Dundee ★

3rd Keshra Patel, 14, Harrow, Middx

4th Cuong Truong, 14, London

5th Fiachra Stokes, 12, Ballinteer, Dublin

#6th Justin Freeman, 15, North# Oxford

I will pay £3 for each letter or joke printed.

Write to: The Controller, Load Runner, 196-200 Balls Pond Road, London N1 4AQ





A great pop single TALK TO ME by the new computer group MAINFRAME

Three ready-to-load programs for the Dragon, BBC B and Spectrum computers providing a dazzling graphic display to accompany the music.

Load Runner meets the Spiders in a deadly confrontation based on the well-known computer game.

Jan and Marc fight for their lives against the evil Simian in Trumbull's World.

PLUS my All your favourite strips, features, puzzles and MM competitions. PLUS

MMI PLUSS

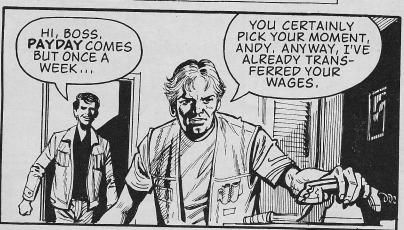
MY

MM

my Place an order NOW

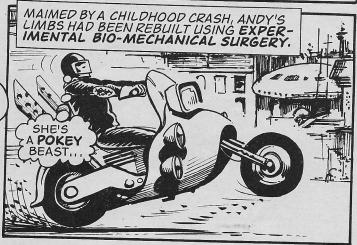
with your Newsagent for Printout No 9. ON SALE OCTOBER 13

DAVY'S DOMINATORS HAVE BEEN THREATENED WITH CLOSURE BY NEAVE MARSHALL ESTATES IF THE TEAM OF ROBOT FOOTBALLERS FAIL TO MAKE A PROFIT IN THE COMING SEASON...



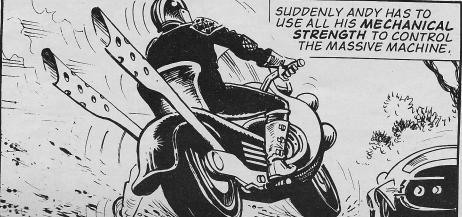






YOU STUPID DISC-BAG!



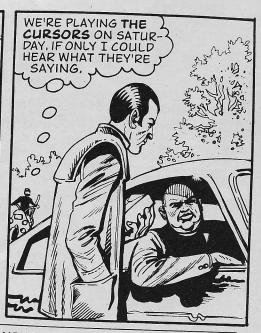


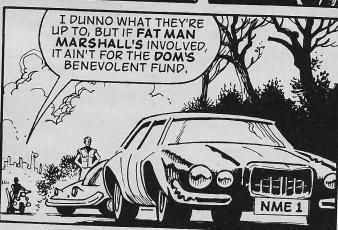
BUT HE'D NOT LOST ANY OF HIS LUST FOR **SPEED!**

















SATURDAY ARRIVES... AND SO DOES KIT CURSOR...

I'D BETTER GET CHANGED, WATCH MY BACK TODAY, BOSS ... I'M **NERVOUS** ABOUT THIS ONE,



SCRIPT -CHRIS WINCH ART -JOHN STOKES LETTERS -S. CRADDOCK



ANDY ROYD



Play in the big league — with only the best, newest programs!

We've searched for brilliant new program sources throughout the U.K. and North America to find an exciting collection of new games — and business programs — many of which cannot be bought by mail order from any other source!

Every month, we'll be adding to our catalogue to bring you the best of new games, new business, educational and household software. And the good news is — we're specialising in programs for your Sinclair!

With our special new deal — you just CAN'T GO WRONG.

- * A free offer every month (this time it's a free blank C20 cassette with every two games ordered)
- * A money-back guarantee if you're not entirely satisfied with your purchase that's how confident we are about the quality and value!

All you have to do is look at our first HOT selection, then order quickly to be among the first to own these games of skill, intelligence and excitement (fast delivery is another of our specialities — so you could be using these new programs SOON).

FREE BLANK C20 COMPUTER CASSETTE WITH EVERY TWO CASSETTES YOU ORDER!

Remember there's no limit to the number of free cassettes you receive if your order justifies them — so why not get together with friends or user group members and share the freebies?

GUARANTEE

Order with complete confidence. If you are not entirely satisfied with the quality of your purchase return it to us within 7 days and we will provide a replacement.

GREAT VALUE! TREMENDOUS SELECTION! PLUS A FREE OFFER EVERY TIME!

Fill in the order form right away — we're guaranteeing fast delivery, quality and satisfaction (after all, we want you to come back for more!)

The Software Workshop, Yew Tree, Selborne, Hants GU34 3JP





Here's a whole NEW selection of the latest games, the best-value software for your ZX-81 or Spectrum.

7V04 0-6			
ZX81 Software 1-01 Stock Market Buy and sell your way to millions!		2-14 Meteor Storm Spectrum version of the ever-popular arcade game. 16K or 48K RAM	£4.95
16K RAM 1-02 Football League First division fun for the soccer	£3.95	2-15 Star Trek Popular space program brought to life by excellent graphics. 48K RAM	£4.95
enthusiast. 16K RAM 1-03 Test Match Match your wits alongside the	£3.95	2-21 Frogger Manoeuvre the frog across the road avoiding heavy traffic. 48K RAM	£5.95
superstars. 16K RAM 1-12 Avenger Avoid missiles and bombs to become the	£3.95	2-22 Crazy Balloons Guide the balloons round the maze without bursting. 48K RAM	£5.95
ruler. 16K RAM 1-13 Protector Defend your own ship from oncoming attackers. 16K RAM	£4.95	2-23 Arcadia The expert's version of the popular 'Invaders' game. 16K or 48K RAM	£5.95
1-31 Comp-U-Share Investment management program for unit trusts, shares and loan stocks.	£4.95	2-24 Golf The finest of golf handicap games. 48K RAM	£5.95
Complete documentation included. 16K RAM 1-32 Comp-U-Tax	£9.95	2-25 Test Match More exciting than the real thing! 48K RAM	£5.95
Accurate personal income tax calculator for 82/83 tax year. Full documentation included. 16K RAM	£9.95	2-26 Derby Day This favourite has to be a winner. 48K RAM	£5.95
		2-27 Rescue Rescue the Princess from marauding patrols. 48K RAM	£5.95
Spectrum Software 2-12 Avenger		2-29 Jackpot The harmless way to take on the onearmed bandit. 48K RAM	£5.95
[See 1-12 under ZX81]. 48K RAM 2-13 Sentinel Guard your mother ship against alien	£4.95	2-41 Comp-U-Share See 1-31 under ZX81. 48K RAM	£9.95
attacks. 48K RAM	£4.95	2-42 Comp-U-Tax See 1-32 under ZX81, 48K RAM	£9.95
To: The Software Worksh	op, rew	ree, Selborne, Hants GU3	4 3JP

I wish to order the following programs. I understand that:

- * I will receive a FREE blank cassette with every 2 programs ordered
- * I can return products within seven days if not entirely satisfied and receive a replacement.

								Pric	
									,
				1					
3	g and ha	g and handlir	g and handling: add	g and handling: add 45	g and handling: add 45p for	g and handling: add 45p for the			

Postage, packing and handling: add 45p for the first cassette, and 25p for each additional cassette. Non-UK orders add extra 50%

l enclose a cheque/postal order for_____

Name_____

Address_____

(Allow 28 days MAXIMUM FOR DELIVERY)





ACORO HUNT

AVID HUNT, 23-year-old brother of former world champion James, has embarked on what might prove to be the most important stage of his motor-racing career. Backed by Acorn Computers, David is driving a Ralt RT3 for the Eddie Jordan Formula Three team, the biggest of its kind in Britain, with five cars and drivers.

From the age of 16 David has been fascinated by racing and for three years he drove 100cc karts in his spare time from school. Eventually he decided to move to Formula Ford and, after working as an electrician, mechanic, painter and decorator, petrol pump attendant, milkman and finally salesman, he saved enough money and obtained sponsorship to

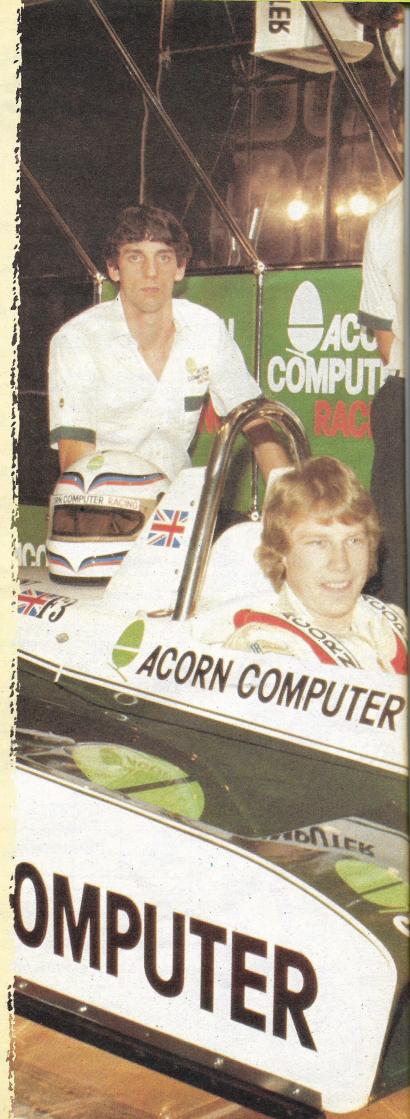
Acorn backs David Hunt in Formula Three

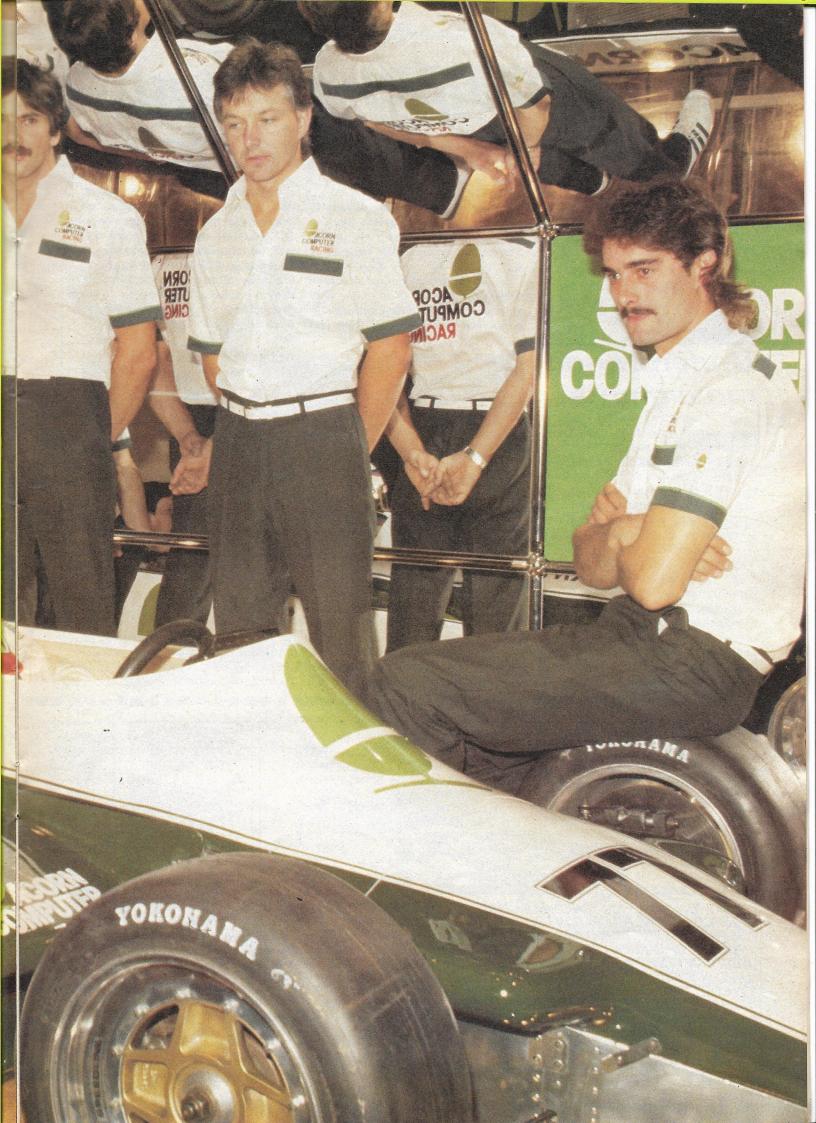
enter Formula Ford racing in 1981. In the 1982 season he received accolades from the race-going public and received a special commendation from the Guild of Motoring Journalists as an up-and-coming talent.

Not only will David be driving an Acorn-sponsored car but he will be involved with Acorn plans to develop a computer Car and Track Simulation system, which will allow racing teams to cope with all random factors and conditions which can occur on Europe's race tracks. Eventually, Acorn will be developing a fully-computerised car and pit service, with David as the guinea pig.

In addition to his racing exploits, David is now joint managing director of a successful Ferrari broking company at Farnham, Surrey and it seems that computers will soon be part of his day-to-day life there, too, as he is buying a BBC micro to help to run the business.

If you want to see David in action, he will be driving the Acorn car at Donington Park on October 8 and 9, at Thruxton on October 23 and again on November 12.







Underground movements

LAST YEAR, 541 million journeys were recorded on the London Underground and most of them involved the use of escalators and lifts.

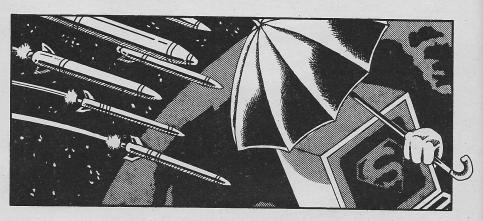
Until recently, London Transport relied on station staff to report failure of the equipment but now it is experimenting with computer alarm systems at five stations on the Northern Line.

As soon as a lift or escalator fails, a report is sent to the Alphatronic computer at the Control Centre, detailing the name of the station and the equipment concerned. The computer is linked also with a new public address system, allowing announcements to be made from the control centre to any stations on the line.

Super-computer saves the day?

THE FILM WarGames, in which a super-computer reacts automatically to what it thinks is a Russian nuclear attack, plunging the United States into World War III, seems less far-fetched every day.

In American top-secret research establishments work is under way on developing a super-computer a machine capable of thinking and making decisions in split seconds. The super-computer will be incorporated in the revolutionary new U.S. missile defence system and will be capable of responding in seconds to a Soviet attack, shooting-down huge intercontinental ballistic missiles before the man on the ground even knows an attack has been launched.



Shoebox brainbox

IF ELECTRONIC hardware continues to shrink at its present rate, it is conceivable that within the next 20 years a computer with a capacity equivalent to the human brain will be no bigger than a shoe-

box and will cost little more than an average motor car. Thirty years ago the same brain-sized collection of hardware would have filled a football pitch and cost the equivalent of 10,000 million family cars.



BY THE 1930s—100 YEARS SINCE
BABBAGE LAID THE FOUNDATION FOR
COMPUTERS—THE WORLD HAD
CHANGED DRAMATICALLY. IN THE
WESTERN WORLD MOST PEOPLE
LIVED IN TOWNS, WENT TO SCHOOL,
COULD READ AND WRITE, AND
WORKED IN INDUSTRY AND COMMERCE.
MECHANISED TRANSPORT HAD
MADE THE WORLD A SMALLER

THE WAY AHEAD

PLACE, AND ELECTRICITY REACHED INTO MOST HOMES, OFFICES AND FACTORIES.
ALTHOUGH AT FIRST SIGHT THEY MIGHT SEEM TO HAVE LITTLE TO DO WITH OUR STORY, THESE CHANGES - SOCIAL, TECHNICAL AND COMMERCIAL - PREPARED THE GROUND FOR THE GRADUAL INTRODUCTION OF COMPUTERS.

Above: Douglas DC-3 airliner and 'skyscrapers'-symbols of western man's technical and social progress by the 1930s.



What a load of rubbish

STUDENTS at Aston University have been looking closely at people's dustbins, sifting the rubbish and feeding the data into a computer. A wasteful use of new technology? Not really—the computer assessment of the refuse gives vital information about the amount of junk which can be usefully recycled.



Buzzwords are the jargon of the computer world and can be very confusing. Below, *Load Runner* continues its glossary of computing terms. Get buzzing.

Fault. A problem which occurs in the hardware of the computer. It could be something wrong with the electronics inside the keyboard casing or it could be a fault between the computer and one of the devices attached to it, like a disc drive.

Feed. Giving information to the computer. It can be done in several ways—via the keyboard, from punched tape, from punched cards or from backing storage such as discs or cassette tape.

Feedback. Information or data obtained from the computer. It will be output from a screen, a printer or a plotter. It is the opposite of feed and you can receive no feedback without giving the computer some feed in the first place.

Fibre optics. The science of sending information along cables which are made up of a glass-like plastic compound. The information is sent along the line in the same way as a telephone call is sent along a wire but the result is usually visual instead of audio.

Field. A portion of memory within a computer file of information which contains one bit of data. A field could, for instance, contain the date of birth of somebody.

File. A collection of bits of data which have some connection with each other. For instance, a file could contain all the names and addresses of the people in your class at school. Files can be either data, such as names and addresses, or programs.

Floppy disc. A plastic-coated, record-shaped object on which you can store information from a computer, such as programs or data. While it takes several minutes to load a program into a computer from cassette tape, it takes only a second to load from disc. That is because the computer has to read a program from tape at the speed of the tape recorder but the disc is faster.

Flowchart. A way of putting on paper the way a program should work before writing that program. The chart is a simple model of what a program should look like when running properly.

Function. Has two meanings. It can mean the operations which the computer can perform. It also describes the mathematical operations which the computer can handle. For instance, finding the square root of a number is a function and the computer language word to tell the machine to find a square root is SQR, followed by the number the square root of which you want to find.

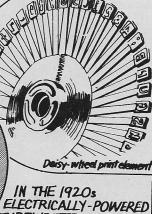
TYPEWRITERS ULTIMATELY SHAPED THE APPEARANCE OF MODERN COMPUTERS - AND MADE PEOPLE FAMILIAR WITH KEYBOARDS, DOCUMENTS AND LETTERS. SETTING TYPE (WORDS) IN METAL AND PRINTING FROM IT WAS ALWAYS EXPENSIVE. MANY INVENTORS TRIED TO MAKE A FAIRLY CHEAP MACHINE THAT WOULD WRITE IN SUCH A WAY THAT THE RESULT APPEARED PRINTED. THE FIRST TO SUCCEED, IN 1867, WAS AN AMERICAN-C.LATHAM SHOLES. HE MADE HIS MARK ON PRACTICALLY EVERY COMPUTER IN USE TODAY -

Left: First working model of Sholes' typewriter. Below: 'QWERTY' Keyboard devised by Sholes.

WERTYUDOP

(V) (B) (N) (M)

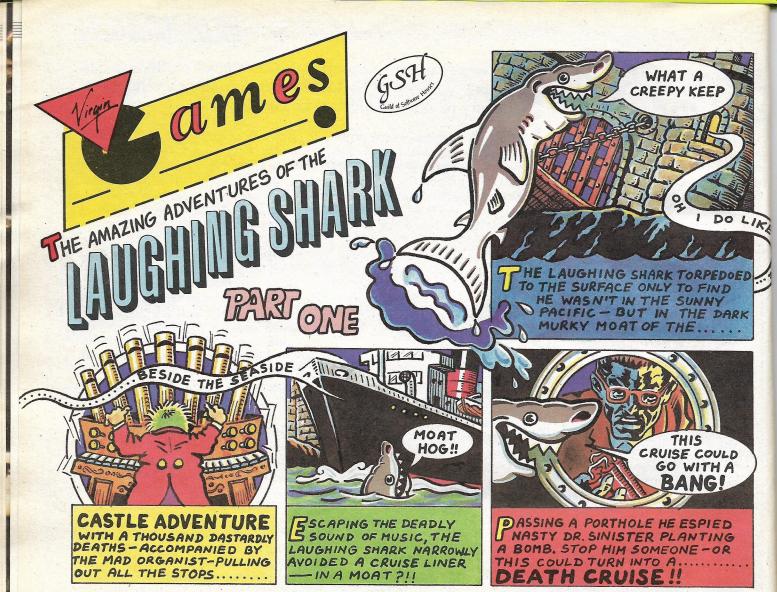
THE 'Q WERTY' KEYBOARD. TO PREVENT THE TYPE-BARS FROM JAMMING - CAUSED BY A BAR RISING TOO SOON BEFORE THE PREVIOUS ONE HAD FALLEN BACK - HE ARRANGED THOSE THAT ARE USED MOST OFTEN AROUND THE OUTSIDE OF THE SEMI-CIRCLE OF BARS. THE LAYOUT WAS DESIGNED TO SLOW DOWN THE TYPIST ENOUGH TO ENSURE THE TYPEWRITER WORKED!



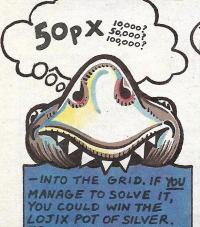
ELECTRICALLY-POWERED
TYPEWRITERS BECAME
AVAILABLE FOR OFFICE
USE-ALTHOUGH THEY
DIDN'T BECOME COMMON

USE-ALTHOUGH THEY
DIDN'T BECOME COMMON
UNTIL THE 1950s. THE 1960s SAW THE INTRODUCTION
OF THE GOLF-BALL TYPEWRITER BY IBM-WHICH
ALLOWED THE TYPE-STYLE TO BE CHANGED AT
WILL. THE DISTINCTION BETWEEN TYPEWRITERS
AND COMPUTER PRINTERS IS QUICKLY DISAPPEARING,
NOW THEY BOTH USE DAISY-WHEELS.

Written and drawn by Chris Smithers







OP X EACH COPY SOLI



DIZZY FROM HAVING TO USE HIS LITTLE FISHY BRAIN OUR INTREPID CHUCKLES GOT LOST AND FOUND HIMSELF IN THE DANK DEPTHS OF KILLER CAVERNS



WITH ITS HORDES OF TREASURE AND DEADLY GUARDIANS... TOO MUCH, EVEN FOR A SUPER FISH, SO HE HOPPED ON A BUS







ING SHARK HAD TO AVOID THE ALIEN 'MUNCHIES' NIBBLING AWAY AT A GIANT DAM. HELP! IF THE DAM BURSTS, IT WOULD FLOOD ENVAHI



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THE ARCADIANS







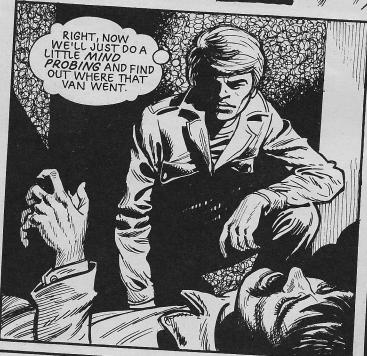




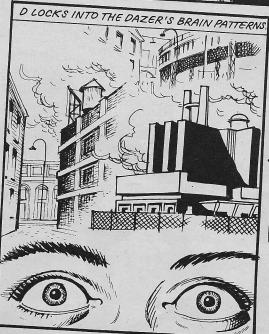


THE AKLADIANS



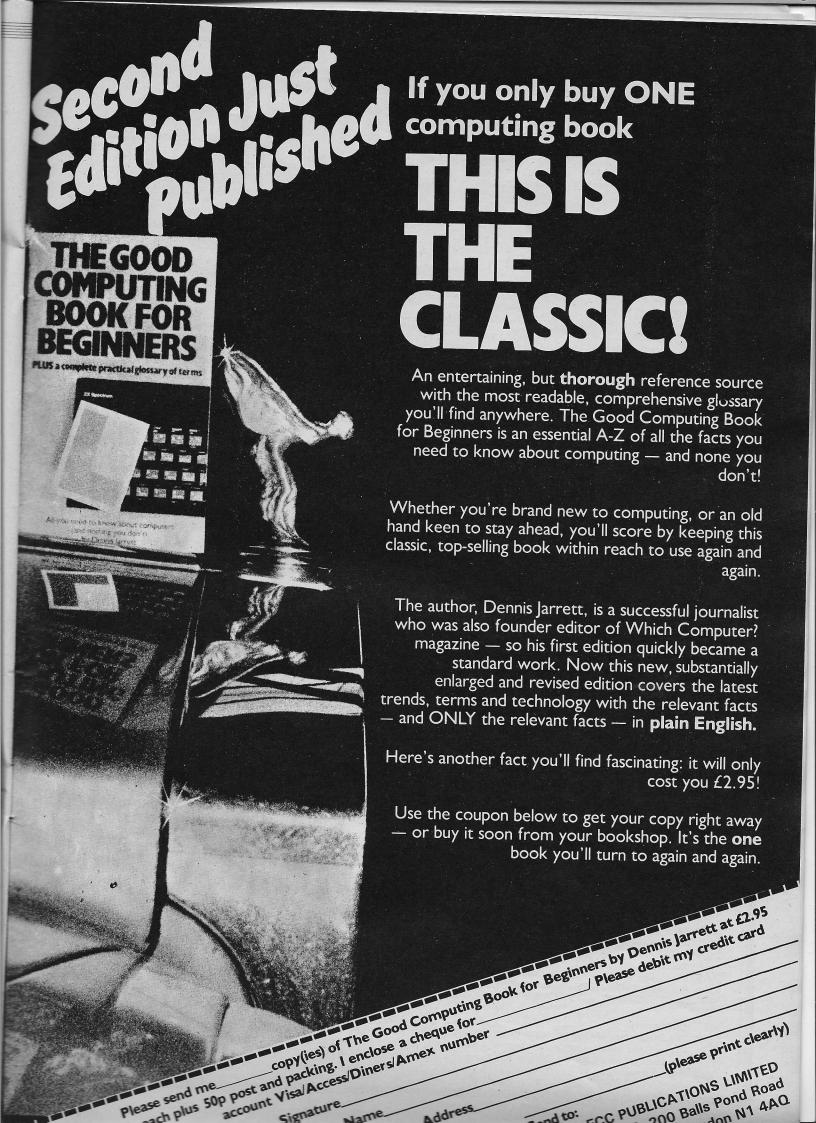




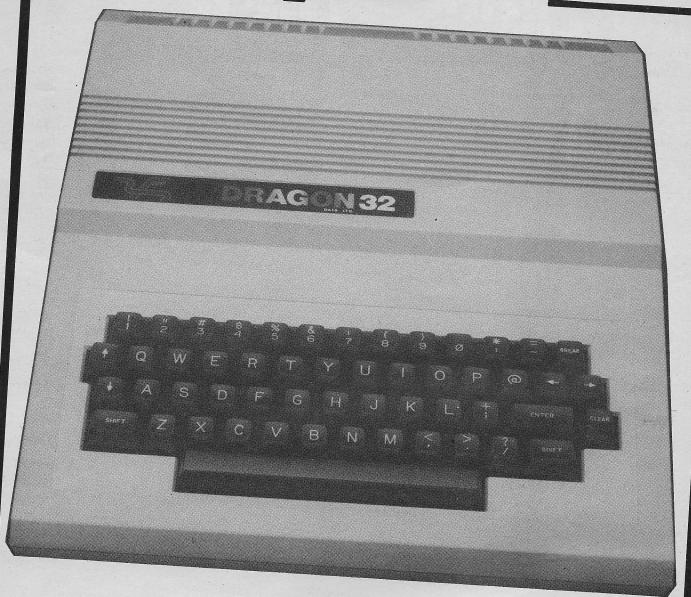








18 Hours



Dragon Data Ltd, Queensway, Swansea SA5 4EH

Specifications

Price

Numbers sold

How sold

Processor

Standard RAM

Expansion RAM Basic + operating system

Display

Tape recorder

Backing storage

Optional

Colour

100,000+

Assembled

6809

32K

£175

16 lines × 32 characters

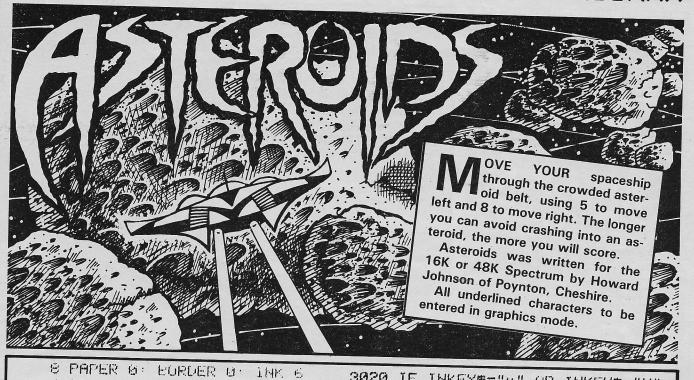
Any Disc drives

Microdeal, 14 Truro Road, St Austell, Cornwall, PL25 5JE.

Soft Joes Software, Business Centre, Claughton Road, Birkenhead, Merseyside.

Salamander Software, 17 Norfolk Road, Brighton BN1 4AA.

The Dragon has always been a popular computer, although the manual for the machine has been criticised strongly. Dragon Data plans to expand the machine with a new operating system and disc drives later this year. Little software has been produced for the Dragon and most of it which is available is from the United States or has links with the



9 GO SUB 1000 10 GO TO 6888 20 LET amINT (RND*36) 30 PRINT FT 21, as INK 4: "ab". 40 LET X=X+CINKEY\$-"8")-CINKEY #="5"0+0x-2<10-0x+2>20): BEEP .0 05,0: BEEP .002,40: LET sc=sc+1: BEEP .008, 10 60 POKE 23692)255 PRINT AT 21 ,911 70 PRINT AT 8,x-1;" ": AT 9.x -2;" ";AT 9;x+1;" " 80 PRINT AT 9, x; INK 6; BRIGHT 6; "c"; AT 16, x-1; "def" 90 IF ATTR (11)x-1)=4 OR ATTR (11)x)=4 OR HITE (11)x+1)-4 THEM GO TO 2000 140 GU TU 20 1000 CLS 1010 INK 6 1060 FOR C=-40 TO 60: BEEP .005. F: NEXT F 1070 FOR f-60 TO -40 STEP -1: BE EP .805, F: NEXT F 1888 PRINT /" Press and key t o continue": PAUSE 0 1090 RETURN 2000 PRINT AT 9, x-1; "***"; AT 10, x-1;"***": BEEP .8;20: BEEP .7;1 3000 CLS PRINT AT 6,10; "You Cr Score="/sc!

IF sc>hi THEN LET hi=sc: PRINT '

hi;" By ": PRINT AT 14,15-(INT (

3005 PRINT /"

LEN n事)/2); n事

3010 PRINT "

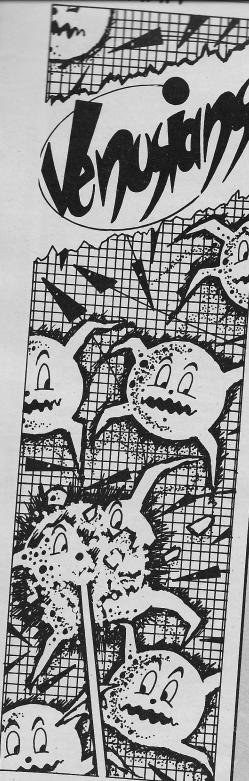
me ?"

Your name ?" : INPUT n

Hi Score"

3020 IF INKEY#="9" OR INKEY##"Y THEN GO TO 7000 3030 IF INKEY#=""" OR INKEY#=""" THEN STOP 3**040** GO TO 3020 4000 CLS : LET sc=0: LET x=15: I NK 6: PAPER 0: BURDER 0: PRINT A T 9.x; BRIGHT, 0; INK 6; "c"; AT 10 7×-1;"def" 4010 GO TO 20 6000 CLS : LET na="": LET hi=0: FOR F=0 TO 5: FOR 9=0 TO 7: READ a: POKE USR CHR# (144+f)+9/a: N EXT 9: NEXT P 7010 PRINT ''" The aim of this 9 ame is to"'"dodge the oncoming a teroids"'"by moving left or righ to a 7020 PRINT '" This is your space ship :- " !!! def"

7030 PRINT //" Left - / lin d Right - / 81 " 7040 PRINT '' Press ENTER to stant game" 7050 BEEP .01,INT (RMD440) 7060 IF INKEYSK >CHR\$ 13 THEN GO TO 7050 7070 PAPER 0: BURDER 0: INK 6: C LS 7888 CO TO 4889 9000 DATA 7,63,123,127,62,63,15, 9,224,252,222,255,255,247,250,24 .9640 DATH 126,126,36,231,231,231 , 231, 255, 3, 7, 12, 24, 48, 48, 96, 240, Another Ga 255,255,219,24,66,126,126,90,192 ,224,48,24,12,12,6,15



ENUSIANS for the BBC Model. B is a quick firing game which will stretch your nerves to the limit. Controlling a laser base at the bottom of the screen you must destroy the Venusians which zoom randomly towards you, using the left and right cursor keys to move and SHIFT to fire.

and SHIFT to life.

Difficult to beat, and with excellent graphics, Venusians was written by Sam Butchart, 12, of Warley, West Midlands.

```
LIST
10MODE 7:VDU 23;8202;0;0;0;
200N ERROR MODE7:END
30PROCINSTRUCT
2:8202:0;0;0;
                  40MODE 2: VDU 23; 8202; 0; 0; 0;
                 40MODE Z:VUU Z3;82UZ;0;0;0;

50*FX 4,1

60VDU Z3,240,255,219,255,195,255,255,219,219

70VDU Z3,241,16,84,84,124,84,16,0,0

80FOR 5%=1 TO 25:VDU 18,0,2,25,69,RND(1279);RND(1023);:NEXT

90SCORE=0:dead=FALSE:shot=FALSE
                100A=8: B=30: Z=2: X=RND(15)
               100H-8:B-80:2-2:A-RND(13)
110ENVELÖPE 2,1,-2,0,0,100,0,0,0,0,0,0,0
120ENVELOPE1,2,0,0,0,0,0,0,9,0,-2,-2,120,80
130ENVELOPE 3,129,2,4,6,28,14,7,0,0,0,-80,80,80
               150COLOUR
              160PRINT TAB(1,1)"SCORE ";SCORE
              170PROCship
180IF shot=TRUE PROCfire
              190PROCwait(SKILL%-SCORE*2)
              200PROCalien
             210UNTIL dead=TRUE
             220MODE 7:*FX 4,0
            230VDU 23;11,0;0;0;0
230VDU 23;11,0;0;0
240PRINT TAB(5,8)"YOU SCORED ";CHR$129;CHR$136 SCORE
             250PRINT TAB(5,10) "ANOTHER GO (Y/N) ";
            270IF LEFT$(g$,1)="Y" THEN CLEAR:RUN
            290DEF PROCShip
            300COLOUR 2
           310PRINT TAB(A-1,B)CHR$32;TAB(A,B)CHR$241;TAB(A+1,B)CHR$32
320IF INKEY(-26) AND A>1 A=A-1
330IF INKEY(-122) AND A<16 A=A+1
           340IF INKEY(-1) THEN shot=TRUE
350IF SKILL%=3 GOTO 370
           360ws=INKEY$(6)
          370ENDPROC
          380DEF PROCwait(wt%)
390FOR wa%=1 TO wt%:NEXT
          400ENDPROC
          410DEF PROCalien
         420SOUND 2,-8,((SCORE+1)DIV4)MOD255,1
         440PRINT TAB(X, Z-1)CHR$32; TAB(X, Z)CHR$240; TAB(X, Z+1)CHR$32
         470DEF PROCfire
        480SOUND 0,1,7,5:SOUND 1,2,20,9
        500FOR f%=B-1 TO Z STEP-1:PRINT TAB(A, f%-1)" "; TAB(A, f%)";";
    TAB(A, f%+1)" ":NEXT:PRINT TAB(1, f%)STRING$(18,"
       510 SOUND 1,-10,177,2
520IF A=X PROChit
        530shot=FALSE
        540ENDPROC
       550DEF PROChit
      530DEF PROUNT

540SCORE=SCORE+10:SOUND 3,3,50,10

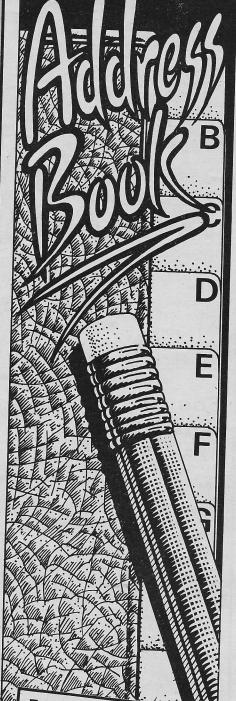
570CLS:FOR 5%=1 TO 25:VDU 18,0,2,25,69,RND(1279);RND(1023);:NEXT

580Z=2:X=RND(15)
     610L0CAL ×%
620F0R ×%=1 TO 20
     630SOUND 1,-12,30,1:SOUND 1,-12,100,1
    640NEXT XX.
650ENDPROC
650ENDPROC
660DEF PROCINSTRUCT
670PRINT CHR$141CHR$157CHR$129CHR$136"
    680PRINT CHR$141CHR$157CHR$129CHR$136"
                                                                            VENUSIANS"
    700FRINT"You must stop the "
                                                                           VENUSIANS"
   700FRINT You must stop the
710PRINT"Venusian invaders from "
720PRINT"landing on Earth by destroying".
   730PRINT"them with your rapid fire"
740PRINT"blast cannon."
  750PRINT The left and right cursor keys"
770PRINT move your fighter craft left and right.
  780PRINT Press 'SHIFT'
                                       to fire cannon."
  SOOFRINT" Enter skill level (1 to 3)"
 800FRINI" Enter skill level (1 to 3. 810INPUT "1 is the easiest "skill". 820IF skill". 1 OR skill". 3 GOTO 790 8300N skill". GOTO 840,850,860 840SKILL". 300: GOTO 870 850SKILL = 200: GOTO 870
 850SKILL%=200:GOTO 870
 860SKILL%=100
8709RILLA=100

8709RINT:PRINT CHR$141" GOOD LUCK!":PRINT CHR$141" GOOD LUCK!"

8809RINT:PRINT" Press 'SPACE BAR' to start"
```

80 POKE788,194 100 POKE36878,15:POKE650,0:PRINT"3";CHR\$(142);CHR\$(8):OPEN1,0:POKE36879,26 110 DIMPH\$(171).STT\$(171),LC\$(171),TW\$(171),CN\$(171),PC\$(171) IFA\$="E"THEN600 IFA\$="E"THEN800 IFA\$="E"THEN810 IFA\$="E"THEN970 250 GOTO180
250 GOTO180
250 GOTO180
260 REM**ENTER DATA**
270 FORN=0T0170:IFNA*(N)=""THEN290
280 MEXTH:GOTO130
290 PRINT"IMHAME:",:INPUT#1,MA*(N):PRINT:PRINTX*
310 PRINT"IMHAME:",:INPUT#1,STT*(N):PRINT:PRINTX*
310 PRINT"IDISTRICT:",:INPUT#1,LO*(N):PRINT:PRINTX*
320 PRINT"COUNTY:",INPUT#1,FC*(N):PRINT:PRINTX*
330 PRINT"COUNTY:",INPUT#1,PC*(N):PRINT:PRINTX*
340 PRINT"COUNTY:",INPUT#1,PH*(N):PRINT:PRINTX*
350 PRINT"HONE:",INPUT#1,PH*(N):PRINT:PRINTX*
350 PRINT"HONE:",INPUT#1,PH*(N):PRINT:PRINTX*
360 FORTM=0TT01808:NEXTTM:SOTO130
370 REM**VIEW DATA**
380 FORN=0T0170:PRINT"IMHAME:";NA*(N):PRINTX*
400 PRINT"STREET:",STT*(N):PRINTX*
410 PRINT"TOWN:"TW*(N):PRINTX*
420 PRINT"COUNTY:";CN*(N):PRINTX*
430 PRINT"P.COUNTY:";CN*(N):PRINTX*
440 PRINT"P.COUNTY:";PH*(N):PRINTX*
450 FORTM=0T0250
450 DETG*:TEGG*="M"THEN120 GOT0180 440 PRINT"PHONE:";PH\$(N):PRINTX\$
450 FORTM=0T0250
460 GETA\$:IFA\$="M"THEN130.
470 IFNA\$(N+1)=""THEN460
480 NEXTIM.N:GOTO130
490 REM**FIND**
500 PRINT"INAME:"):INPUT#1,NM\$
510 FORN=0T0170:IFNA\$(N)=NM\$THEN530
520 NEXTN::GOTO760
530 PRINT"INAME:"):PRINTX\$:PRINT"STREET:";STT\$(NN):PRINTX\$
550 PRINT"DISTRICT:";LC\$(N):PRINTX\$:PRINT"TOUN:")TW\$(N):PRINTX\$
550 PRINT"COUNTY:";CN\$(N):PRINTX\$:PRINT"P.CODE:";PC\$(N):PRINTX\$
550 FOROW=1T0500:NEXTON
570 GETA\$:IFA\$="M"THEN130
580 IFFL=1TTHEN RETURN
590 GOTO570 590 GOTO570 600 REM**HELP** 610 PRINT"INAMANANABBBN:FIRST NAMES":PRINT"NABBBBN:SECOND NAMES"
620 PRINT"NBBBR"::INPUTA :ONA GOTO640,710 640 REM**1ST NMS** 650 PRINT"DIST NAMES:";:INFUT#1,NM\$ 660 A=LEN(NM\$) 988 H\$=LN\$(N):CN\$(N)=CN\$(N+1):CN\$(N+1)=H\$
888 H\$=PC\$(N):PC\$(N)=PC\$(N+1):PC\$(N+1)=H\$
819 REM**FILE DUT**
820 PRINT"JMSET TAPE TO THE RIGHT FOSITION":PRINT"PRESS SPACE BAR"
830 GETA\$:IFA\$<○" "THEN830
840 CLOSE1:OPENI,1,1,"DATA BASE"
850 FORN=0T0170:IFNA\$(N)="THEN880
860 PRINT#1.NA\$(N):PRINT#1,STT\$(N):PRINT#1,LC\$(N):PRINT#1,TW\$(N)
870 PRINT#1.NA\$(N):PRINT#1,PC\$(N):PRINT#1,FH\$(N)
880 NEXTH:CLOSE1:OPENI,8:GOT0130
890 REM**FILE IN**
910 GETA\$:IFA\$<○" "THEN910
920 CLOSE1:OPENI,1,0,"DATA BASE"
930 FORN=0T0170:INPUT#1,NA\$(N):INPUT#1,STT\$(N):INPUT#1,LC\$(N)
950 IFST=0 THEN NEXT N
950 IFST=0 THEN NEXT N
950 CLOSE1:OPENI,0:GOT0130
970 REM**UPDATT**
980 PRINT"JMNHE:";:INPUT#1,NM\$
990 FORN=0T0170:IFNM\$=NA\$(N):INPUT#1,FC\$(N):INPUT#1,PH\$(N)
950 FORN=0T0170:IFNM\$=NA\$(N):INPUT#1,PC\$(N):INPUT#1,PH\$(N)
950 PRINT"JMNHE:";:INPUT#1,NM\$
990 PRINT"JMNHE:";:INPUT#1,NM\$



SING THIS Address Book for the Vic-20 it is possible to store 170 names and addresses within 16K memory expansion.

The menu gives options of entering new names and addresses and viewing the data stored by typingin the full name of the person. Data can be loaded and saved using cassette and pressing M will enable you to return to the menu.

Address Book will run on an 8K Vic-20 with limited storage capacity. It was submitted by Patrick Ying of the South Chadderton Computer Club.

In line 140 and 770 substitute Inverse £ for \$ where underlined.



HI! I'M BRAINY and I really rate computers. I'm in Load Runner every issue so write to me at 196-200 Balls Pond Road, London N1 4AQ and I'll do my best to answer any questions you have.

Remember, Brainy's the name and, by the way, I will pay £1 to anyone whose name is mentioned. Write away!

BRINI'S BRINION

Spot the difference

WHAT IS the difference between a video games machine like the Atari and a computer like the Spectrum?

Stephen Toos, Newport Pagnell, Bucks.

THE ATARI home video centre is only for playing games. The Spectrum, however, being a computer, enables you to write your own programs and games. Tapes are less expensive and more of your friends are likely to have them, so you can exchange tapes with them. You can do all kinds of things with a computer which you could not even attempt with a video-games machine.

Micros—just another craze?

HOW CAN I convince my parents to let me buy a computer when they think it is just another electronic game of which I will soon grow tired? When and if my parents let me buy one, would you recommend the Commodore Vic-20 as a good all-round computer for playing arcade games and learning school subjects?

Stephen Dunne, Dublin.

YOU CAN assure your parents a

computer is not just another electronic game, because you can use it educationally, such as for helping with revision, as well as for playing games and writing programs.

The Vic-20 is one of the top computers and has plenty of good software and books about it. It is also inexpensive but it has only a small memory and uses only capital letters. It is, however, a good, popular computer, with plenty of reasonably inexpensive games and learning software.

Talk about computer talk

MY DAD says computers are better than people. I told him that they cannot hear and speak but he said they could. That is not true, is it?

Lucy Martyn, Poole, Dorset.

YOUR FATHER is correct. You can buy special attachments for many computers which enable them to say certain words, usually with a strong American accent, and you can even get them for the Spectrum. The Apple and some bigger computers can be programmed to recognise certain words—usually up to about 100—spoken by certain people, so they can be said to hear and speak. They cannot see, though, if that is any consolation. And I think I prefer people.

Using GOTO statements

I HAVE easy access to a BBC Micro Model B and in my programs I often use the GOTO statement. In the BBC Micro User Guide it says that using the GOTO statement is bad practice and you should use a 'REPEAT...UNTIL' loop instead. Please could you tell me how to use a REPEAT...UNTIL loop instead of the GOTO statement?

Conor Quinn, Belfast.

YOU CANNOT replace all GOTOs with REPEAT...UNTIL loops but the ones you can occur when you have to type in the correct reply or answer. For instance, you might have this program:

20 INPUT reply

30 IF reply = 5 THEN GOTO 50

40 GOTO 20

50 PRINT "Good!"

That is perfectly satisfactory but if you did that all over a big program, you would find it difficult to read the program and would have difficulties if something went wrong. Instead you could type:

20 REPEAT: INPUT reply

30 UNTIL reply = 5 40 PRINT "Good!"

That is much easier to debug, alter and understand.

What is the TRS-80?

I HAVE seen a computer called the TRS-80. I have asked if it is a good computer but none of those I asked has heard of it. I wonder if you could tell me if it is worth buying?

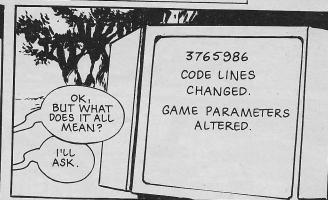
Shaun Gee, Shirecliffe, Sheffield.

THE OLD, black-and-white version of it has recently been replaced by the Tandy TRS-80 colour computer. It has fairly good Basic and a reasonable range of software for it. I think it can use the software for the old TRS-80, too.

It is expensive, about £240, but you could probably buy a much cheaper second-hand model by looking through advertisements in computer magazines. You should ask to try it in shops or at computer fairs before deciding to buy.















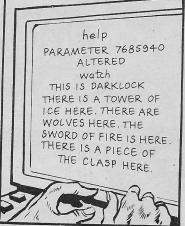




TRUMBULL'S WORLD









FOLLOW ME!



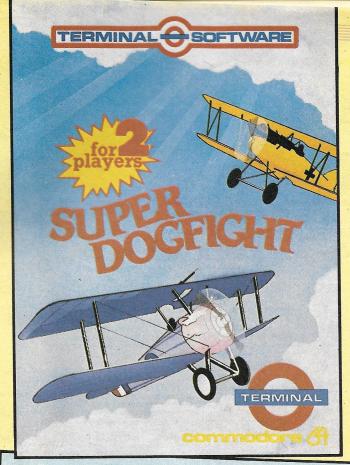






TRUMBULL'S WORLD





Duelling air aces

biplane and a German pilot is attacking you with machine-gun fire.

Dog Fight, for the Commodore 64, re-enacts one of those timeless duels of the First World War. It is not a visually-exciting re-enactment as little happens on the computer screen. There are two aircraft crossing the screen at odd angles firing machine-gun bursts but there is little to make it a game to appeal to the real

The game is for two players and the computer acts only as a moderator, scoring every time you or your partner scores a hit. One player can use the game by setting one aircraft on a course and bombing it with the other.

The aircraft can be moved using two joysticks, or one joystick and the keyboard. That means one of the aircraft has to be controlled with a joystick all the time.

Despite the rough edges of the game the fast action, sprite graphics and the realistic sound effects provide some entertainment. Dog Fight can be obtained from Terminal Software and

Fun, 6; addictive, 5; graphics, 7

Jumping Jets!

THE FALKLANDS war gave a new lease of life to games concepts on popular microcomputers. The latest in this vein is Harrier Attack, which runs on the 16K Spectrum and Oric. The objective is to take off from your aircraft carrier, evade the strafing runs of the enemy aircraft which come to meet you and reach the island.

The Harriers being jump-jets, it means they can take-off vertically instead of the usual steady climb of most aircraft.

To get anywhere near the island calls for a good deal of persistence. When you start playing, the enemy attack quickly and your aircraft will either be destroyed by their cunning or in a collision with an attacker.

Both versions are surprisingly alike, although that for the Oric has the slight advantage of arcade-quality graphics.

Harrier Attack can be obtained from Durell Software and costs £6.95 for the Oric and £5.50 for the Spectrum.

Fun, 8; addictive, 8; graphics, 8.



DIAMOND5 FOR ATARIHOME COMPUTERS

Digger Dan

DIAMONDS is similar to the arcade game Dig Dug and introduces us to Digger Dan, a prospector mining for the Great White Diamond. Unfortunately for Dan, on the way to the diamond field he has upset some of the locals.

There are 16 levels in the game, each with four screens. The first level is fairly easy but as the game progresses the levels become almost impossible to complete. The aim is to collect the small clusters of diamonds scattered around the screen while being pursued by various menaces.

On the first four screens Dan must collect the diamonds while being chased by Brian the Blob, who can be crushed under the various rocks scattered around. Dan also has Philip the Filler, the Fireflies, Simon the Snake and the Eyes to contend with, and if he takes too long to clear a screen of diamonds the Demon appears and he doesn't need tunnels to pursue Dan.

Although there are 16 levels the only real variations are in the position of brick walls under the ground which make the collection of the diamonds more hazardous.

The first person to complete all 16 levels wins the Digger Dan Diamond Trophy but to attain that standard will take a good deal of skill as no extra lives are awarded for high scores.

Diamonds runs on an Atari 400/800 and is available from the English Software Co at a cost of £14.95.

Fun, 7; addictive, 7; graphics, 6.

Horrific adventure

RESCUING the princess from the castle of an evil magician or king is a standard plot for adventure games. The plot of Horror Castle, for the Dragon 32, is old and standard with more creaks in it than in the mouldy floors of the rascal's halls.

The game is machine-coded but it could just as well have been written in Dragon Basic for the extra speed and finish of the final product. The adventure was text only, with no graphics or even a bleep of a sound effect.

The manufacturer could surely have thought of a better plot, even if it still took place in a castle, and a little more care might have been put into realising the potential of this good machine.

Horror Castle can be obtained from A and F Software. It costs

Fun, 3; addictive, 2; graphics, 1.





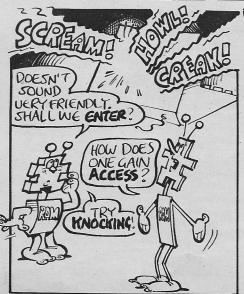




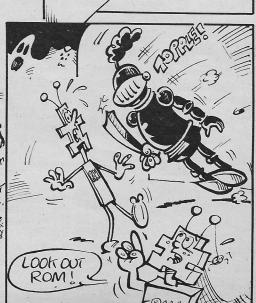












ROMERAM





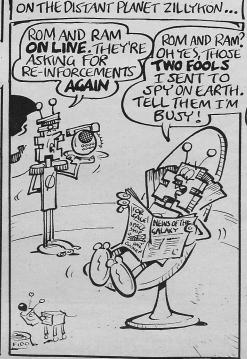


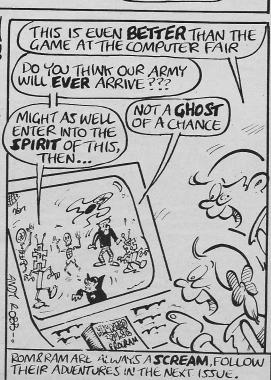












ARCADE ARCHIVES

SCRAMBLE

BY 1980, the arcades were literally being invaded by dozens of new games, one of them Scramble by Stern Electronics. The game was popular from the beginning, because of its good graphics. Unlike most of its counterparts, it featured a scrolling landscape making the game seem more realistic.

Scramble was one of the first games to feature such things as fuel gauges and numerous alien terrains, making things slightly more complex for the novice player.

You control a spacecraft which can be made to move up and down or back and forth above the alien landscape which scrolls from right to left and is, of course, deadly to the touch. You must also keep a watchful eye on the fuel gauge at the bottom of the screen, which must be replenished by destroying the alien fuel dumps located at various positions along the planet's surface.

During the phase your craft is shot at by ground-to-air missiles and they can be destroyed by your machine-gun fire or bombs, which can be despatched two at a time. There are a number of alien bases dotted among the fuel dumps and they can be picked off for a mystery bonus.

The key to negotiating that part of the game is to manoeuvre close to the surface and shoot everything in your path. As you progress further into the system you are attacked by swarming UFOs and indestructible fireballs. To pass that section it is advisable to hug the surface and dodge the fireballs, keeping a watchful eye on your ever-decreasing fuel supply.

The game has six phases, including a mothership or base with which you must dock at the end of the system. In the event of a player achieving that, the game will restart on a slightly faster level. It takes a very skilled player to reach that standard.

Vic Skramble by Terminal Software is also a faithful version, with clear graphics for the 3.5K machine.

Ratings:

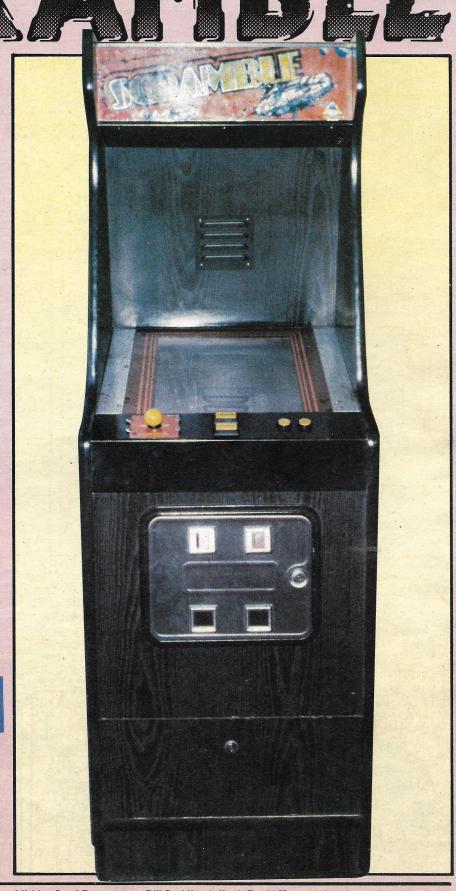
Airstrike	8
Gauntlet	8
Penetrator	9
Skramble	7

Software

THE ENGLISH Software Co produces the best version of Scramble for the Atari micros, called Airstrike and it is a very good copy of the arcade game.

Colourmatic markets a ZX-81 scramble, Gauntlet, for the 16K machine. That, too, features six phases and is another excellent copy.

Penetrator is the best scramble-type game for the 48K Spectrum and is from Melbourne House.



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